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distributions in structural engineering **vibration** problems have small eigenvalues of order unity
z Numerical Aerodynamic **Simulation** (NAS) Systems Division, National Aeronautics
than just a few eigenvalues and vectors. One of our **test** problems is an analysis of a nuclear reactor
ftp.cerfacs.fr/pub/algo/workshops/ILAY/Eigen/lewis_paper.ps.gz

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Universal Part Manipulation in the Plane with a Single.. - Reznik, Canny (1998) (Correct) (13 citations)
a closed, horizontal mo tion of the plate -a **vibration** cycle -can be computed which yields the
plate motions. In Section 4 we present dynamic **simulation** results for two parallel manipula tion tasks.
parts renders these devices difficult to fabricate, **test**, and maintain. Here we take a minimalist approach
www.CS.Berkeley.EDU/~dreznik/Pubs/wafr98.ps.gz

A Flat Rigid Plate is a Universal Planar Manipulator - Reznik, Canny (1998) (Correct) (9 citations)
by vi bratory bowl feeders and certain **vibrations**based devices such as the APOS feeder [9]In
arrays and/or prehensile manipulation. Dynamic **simulation** is used to **test** the current method in two
manipulation. Dynamic **simulation** is used to **test** the current method in two parallel part
www.cs.berkeley.edu/~dreznik/Pubs/icra98-2d.ps.gz

Human Factors For The Design Of Force-Reflecting Haptic Interfaces - Hong Tan (1994) (Correct) (5 citations)
[24] Hong Tan, Mandayam Srinivasan, Brian Eberman, **and** B. Chang. Human factors for the design of
www-white.media.mit.edu/people/hongtan/hongtan-pub/conf/11ASME94.ps

Performance Issues For Iterative Solvers In Device Simulation - Qing Fan Forsyth (1996) (Correct) (3 citations)
1987] and includes components due to lattice **vibration**, ionized impurities, surface scattering and
Issues For Iterative Solvers In Device **Simulation** \lambda Qing Fan ,P. A. Forsyth Z ,J. R. F.
[and drop tolerance [preconditioners will be **test**ed. A new two step preconditioner, which treats
www.scicom.uwaterloo.ca/wptang/perform.ps

Subspace-Based Fault Detection And Isolation.. - Basseville.. (1997) (Correct) (2 citations)
Detection And Isolation Methods Application To **Vibration** Monitoring Mich Ele Basseville, Maher
Abdelghani, Albert Benveniste *Th`eme 4 -**Simulation** et optimisation de syst`emes complexes Projet
[11]and the computation of specific 2 type **tests** based on the socalled instrumental statistics
ftp.irisa.fr/techreports/1997/PI-1143.ps.gz

Transfer of Support in a Dynamic Walking Robot - David William Bailey (1995) (Correct) (1 citation)
of instantaneously and that there is little much **vibration** during loading. This thesis describes a project
[1] implemented ground speed matching in a **simulation** of a running ostrich. His goal was to emulate
: 16 23 GeekBot **test** setup :
www.ai.mit.edu/projects/leglab/publications/geekbot/db_thesis.ps

A Theoretical Framework For Functional Form Tolerances In.. - Srinivasan (1994) (Correct) (1 citation)
and Classification :57 4.1.3 **Vibration** Model :
: 61 4.2 **Simulation** :
shimano.me.utexas.edu/papers/srini_thesis.ps.gz

An ELLAM-Based Domain Decomposition and Local Refinement.. - Hong Wang (1993) (Correct) (1 citation)
propagation in elastic solids or inviscid fluids, **vibration** of elastic materials, seismic **simulation**, fluids, **vibration** of elastic materials, seismic **simulation**, electrical engineering and many other . In the ELLAM framework, one considers spacetime **test** functions w that vanish outside of [a b] Theta
mgnet.ccs.uky.edu/mgnet/www/mgnet/Conferences/CopperMtn95/hwang.ps.gz

Bispectral Analysis of Periodic Signals in Noise : Theory.. - Justin Fackrell (1994) (Correct) (1 citation)
and Alan T. PARSONS y Institute of Sound and **Vibration** Research, University of Southampton, SO9 5NH, is important to bear in mind when constructing **simulation** signals for bispectral ana lysis, since large also takes the bed of nails form (see Figure 1)**test**_imp.bic" 0.5 0 0 0.5 0 0.5 0 0.5 1 k l
www.ee.ed.ac.uk/~jwaf/Work/Conferences/eusip_rerun.ps.gz

Robust Tracking Control Of A Magnetically Suspended Rigid Body - Kyong Lim (1993) (Correct) (1 citation)
[2]6]The study reported in [2]6] considers **vibration** attenuation and finepointing control for a (LAMSTF)The modeling, design, analysis, **simulation** and **test**ing of a control law that guarantees controllers for the Large Angle Magnetic Suspension **Test** Facility (LAMSTF)The modeling, design, analysis,
techreports.larc.nasa.gov/pub/techreports/larc/93/cp3247-p583.ps.Z

Learning to Fly: Modeling Human Control Strategies in an.. - Stancliff, Nechyba (2000) (Correct)
www.mil.ufl.edu/publications/fcrar00/stancliff_fcrar00.pdf

Performance Evaluation Via Logical Description - Ozawa, al. (1998) (Correct)
Systems &Software Research Laboratorit$286 land Development Center 70, Yanagi-cho, Saiwai-ku,
www-cdr.stanford.edu/ProcessLink/papers/toshiba/OzawaASME98.pdf

Coarse Graining of Nonbonded Inter-particle.. - Meyer, Biermann.. (2000) (Correct)
extensions of the order of some 100 A. Bond **vibration** times are of the order of 10 \Gamma13 s while of particles considered in molecular dynamics **simulations** is reduced while conserving as many properties (mostly influenced by the LJ 'are common **test** observables. Since it is a priori unknown how
www-theory.mpip-mainz.mpg.de/~mplathe/downloads/coarse-graining.ps.gz

Random Lock-in Intervals for Tubular Structural Elements.. - Christensen, Ditlevsen (Correct)
simulated nawind #Claus F. Christensen **and** Ove Ditlev*DMember, ASCE Abstract.3
www.bkm.dtu.dk/~od/./papers/Lock_In_ASCE_98.pdf

Acoustic Performance Analysis of an Air Handling System - Morris Hsi Ford (Correct)
as well as in the exterior field. Flow of air and **vibration** of structures are solved simultaneously in the with preliminary **test** data. Also compared is a **simulation** of the same system using a Helmholtz equation Predictions were compared with preliminary **test** data. Also compared is a **simulation** of the same
www.mecalog.co.jp/Presentation_radioss_cfd_html/post/SAE97.ps.gz

End-Point Control of Long Reach Manipulator Systems - Mavroidis Dubowsky And (Correct)
of Long Reach Manipulator Systems Mavroidis Dubowsky An
cronos.rutgers.edu/~mavro/papers/iftommlrm.pdf

Control Strategies for a Structural Control Benchmark.. - Baker, Johnson.. (1999) (Correct)
www.coins.nd.edu/~johnsone/papers/emd99_bench_experimental.pdf

Aas 95-318 Minimum Time Fuel Efficient Maneuver Of.. - Arun Banerjee Senior (Correct)
Efficient Maneuver Of Flexible Spacecraft With **Vibration** Amplitude Constraints Arun K. Banerjee Senior will be presented. The first method places a **simulation** inside an optimization loop. The maximum is given next. This model is used to rigorously **test** the command profiles generated with the simple
web.mit.edu/shaping/www/papers/AAS95-318.ps

Wire Setup Calibration of Beam Position Monitors - Wang Binns Kogan (Correct)
Abv 2k3 Easily Avail"hc(409 Bench **Test** And Field Oph= To
www.aps.anl.gov/conferences/mirrored/www.cern.ch/accelconf/p95/ARTICLES/TPB/TPB04.PDF

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COMPARISON Of MEASURED AND CALCULATED DYNAMIC APERTURE - Willeke Deutsches.. (Correct)
r5comparison Of Measured **And** Calculated Dynamic Apert@F. Willeke Deutsches
www.aps.anl.gov/conferences/mirrored/www.cern.ch/accelconf/p95/ARTICLES/TAG/TAG02.PDF

Design and Experimental Validation of a Flutter.. - Waszak, Srinathkumar (1992) (Correct)
information was used to compute a set of in vacuo **vibration** mode shapes, frequencies, and generalized computer graphics tools and extensive **simulation**based analysis. The design approach uses a will be addressed herein. Two windtunnel **tests** were con ducted during the second phase. These
www.kari.re.kr/NASA/larc/92/tm4381.ps.Z

An Overview of Landing Gear Dynamics - Pritchard (1999) (Correct)
dynamics, especially shimmy and brakeinduced **vibration**. Although neither shimmy nor brakeinduced a variety of analyses, **test**ing, modeling, and **simulation** of aircraft landing gear. Experimental literature survey revealed a variety of analyses, **test**ing, modeling, and **simulation** of aircraft landing
techreports.larc.nasa.gov/pub/techreports/larc/1999/tm/NASA-99-tm209143.ps.Z

Nasa/tp-1999-209124 - Modeling And Validation (1999) (Correct)
One aspect often overlooked is groundinduced **vibration** of these aircraft. This paper presents an 1950's (ref. 2)Work has included numerical **simulation** techniques and experimental measurements to landing gear. A facility has been developed to **test** various active landing gear control concepts and
techreports.larc.nasa.gov/pub/techreports/larc/1999/tp/NASA-99-tp209124.ps.Z

Fermi Statistics of Weakly Excited Granular Materials in a.. - Paul Quinn (Correct)
granular mate rials confined in a box with **vibrations** of the bottom plate. The **vibrations** will inject Materials in a Vibrating Bed: Molecular Dynamics **Simulations** Paul V. Quinn 1 and Daniel C. Hong 2 Molecular Dynamics **simulations** were carried out to **test** the ther modynamic theory of weakly excited,
www.lehigh.edu/~dh09/physica-fermi.ps

Vibration Analysis using ROSETTA - A Practical Application of.. - Løken (1998) (Correct)
Norges teknisknaturvitenskapelige universitet **Vibration** Analysis using Rosetta A Practical Application and common guidelines exist. In this work, a **simulation** model of an existing type of machinery is used
www.idi.ntnu.no/IDT/grupper/KS-grp/report_student_projects/loken-report-1998.ps.gz

Session 1668 - Using Gt (1994) (Correct)
Canada, June, 1994. Session 1668 Using 'GT **Vibrations**' in System Dynamics and **Vibrations** Courses done in Working Model, which is a mechanical **simulation** program. A description of the system's the user to go from Director to Working Model to **test** actual examples where he can modify the system
ftp.cc.gatech.edu/pub/gvu/tr/1994/94-15.ps.Z

Halfangle Elliptic Cone, Raked Off At an Angle of 73 - To The (Correct)
velocity fli ght are the result of excitation of **vibration** ,dis sociation ,and ion ization energy modes NASA Technical Paper 3157 **Simulation** of RealGas Effects on Pressure Distributions approximately 245 000 ft. A preflight ground based **test** program was initiated to provide calibra tion
techreports.larc.nasa.gov/pub/techreports/larc/92/tp3157.ps.Z

The Tauvex UV Imager - Brosch (1996) (Correct)
a mass and center of gravity model for satellite **vibration tests**, and a thermal **simulation** model. The for satellite **vibration tests**, and a thermal **simulation** model. The lat ter, in particular, is the predicted behavior is verified by exten sive **tests**. ElOp already produced a number of models of the
mercury.es.pusan.ac.kr/IAUap/papers/I27.ps.gz

Managing Surrogate Objectives to Optimize a.. - Booker, Frank.. (1998) (Correct)
for our collaboration, the design of a lower **vibration** helicopter rotor blade. 1 The two versions
ad hoc procedures or impractical. Legacy **simulation** codes that fail on some plausible inputs and
In this paper, we will report our latest numerical **tests** with a helicopter rotor design problem which has
softlib.rice.edu/pub/CRPC-TRs/reports/CRPC-TR98780.ps.gz

Hypersonic Flight Control System Design Using Fixed Order.. - Buschek, Calise (1995) (Correct)
fraction introduces relatively low structural **vibration** frequencies. Significant elasticrigid body
and their performance is evaluated in a linear **simulation** using a worstcase disturbance. 2 Fixed Order
propulsive characteristics of the vehicle. Flight **tests** of full scale or reduced scale **test** vehicles will
www.ae.gatech.edu/research/controls/fiasco/./papers/JGCD_hypersonic.ps

A Study Of Some Approaches To Vibration Data Analysis - Abrahamsson, McKelvey, Ljung (1994) (Correct)
A Study Of Some Approaches To **Vibration** Data Analysis T. Abrahamsson \lambda ,T.
be applied in the aircraft load evaluation and **simulation** of extremely hard landings (up to 3 m/s sink
Abstract. Using data from extensive **vibrationa**l **tests** of the new aircraft Saab 2000 three different
ftp.control.isy.liu.se/pub/Reports/1994/1600.ps.Z

Analysis and Synthesis of Environmental Sounds - Guggiana, Darvishi, Munteanu, .. (1995) (Correct)
lead us to a system of damped natural modes of **vibration** with various initial amplitudes. However, this
their methods and techniques in sound **simulation** for film production. We interviewed them both
Motavalli Swiss Federal Laboratories for Material **Test**ing and Research (EMPA) Uberlandstrasse 129,
ftp.ifi.unizh.ch/pub/techreports/TR-95/ifi-95.12.ps.gz

An Overview of Recent Developments in Computational.. - Bennett, Edwards (Correct)
2 Geometry Definition CFD Grid Definition **Vibration** Interpolation Moving Transient Modes Grid
and the elements of one type of the analysis or **simulation** process are briefly reviewed. The need for
need for a broad range of additional flutter **test** cases for further comparisons. Some existing data
techreports.larc.nasa.gov/pub/techreports/larc/1998/aiaa/NASA-aiaa-98-2421.ps.Z

Diagnostics Of Detector Tube Impacting With Wavelet Techniques - Cz And (Correct)
O. 1984) Stochastic Aspects of TwoDimensional **Vibration** Diagnostics Ann. Nucl. Energy 14, No2, pp.
and the detector signal. It was shown by both **simulations** and by analysis of real plant data that a
systems. 6. CONCLUSIONS The analysis and **tests** reported in this paper show that waveletbased
www.kfki.hu/~racza/Papers/detector.ps.gz

Mark W. Nixon - Army Vehicle (1997) (Correct)
Higher Harmonic Control For Tiltrotor **Vibration** Reduction Mark W. Nixon U.s. Army Vehicle
important elastic mode frequency of the model. **Simulation** of the distributed wing beamwise, chordwise,
joint NASA/Army/Bell Helicopter Textron windtunnel **test** to assess the potential of higher harmonic control
techreports.larc.nasa.gov/pub/techreports/larc/1997/mtg/NASA-97-ceas-mwn.ps.Z

Comparison of some Techniques for Learning-Based Pattern.. - Lihovd, RASMUSSEN (Correct)
motor is then presented. An extensive set of **vibration** and process measurements was collected for the
cases may come from physical experiments, **simulation** studies with parametric models, and from
network. Each technique is briefly introduced and a **test** case involving a centrifugal pump driven by an
www.marintek.sintef.no/mt23doc/private/einar/yokohama.ps.gz

Driving Simulation - James Gruening (Correct)
motion platform used in conjunction with a **vibration** table [1, 22]Throughout the 80s, DaimlerBenz
980223 Driving **Simulation** James Gruening, James Bernard, Chris Clover,
have several advantages over comparable vehicle **test**ing: safety, reproducibility of the vehicle model
www.public.iastate.edu/~honyamda/sae98dsim.ps.gz

Approximation And Numerical Experiments For Control Of Time.. - Wang (1993) (Correct)
dependent parameters. A typical example is the **vibration** control of space structures in composite
Efforts on the numerical approximation and **simulation** of control of time periodic parabolic
distributed parameter system are reported. **Test** examples have been chosen suc that the optimal
usc.edu/pub/cams/cams93-10.ps

Optimization Using Surrogate Objectives On a Helicopter Test.. - Andrew Booker (1997) (Correct)
for 31 design variables to minimize a measure of **vibration** of a helicopter rotor blade. A simplified of a helicopter rotor blade. A simplified **simulation** code is used in which the flow field in the
Using Surrogate Objectives On a Helicopter **Test** Example Andrew J. Booker, J.E. Dennis, Jr.Paul softlib.rice.edu/pub/CRPC-TRs/reports/CRPC-TR97734-S.ps.gz

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BARRY: An Autonomous Train-Spotter - Pippa Hilary (Correct)
of trains. Perhaps the most obvious is a simple **vibration** detector attached to the rails. This technique laboratory using a stateoftheart rail network **simulation** system [4]BARRY detected the train from the [1] for the lowlevel processing stage, but having **test**ed it against the multiresolution SHREWD feature
http.cs.berkeley.edu/~pm/Abstracts/../Papers/BARRY.ps.gz

Michael G. Gilbert - Sharon Welch (Correct)
and prove measurement of the structural **vibration** response of a Russian Space Station Mir solar calibration of the hardware and ground **simulation** of the experiment was performed using a sufficient excitation for structural response **test**ing. The NASA Langley Research Center (LaRC) and
techreports.larc.nasa.gov/pub/techreports/larc/1997/aiaa/NASA-aiaa-97-1168.ps.Z

Real Time Simulation and Online Control for.. - Chucholowski.. (1999) (Correct)
such as body roll, ride quality including **vibration** and bumps, vehicle safety, and performance
Real Time **Simulation** and Online Control for Virtual **Test** Drives of
Real Time **Simulation** and Online Control for Virtual **Test** Drives of Cars Cornelius Chucholowski 1 ,Martin
www-m2.mathematik.tu-muenchen.de/~stryk/paper/1998-fortwihr-tesis.ps.gz

Implementation Of A Vibrationally Linked Chemical Reaction.. - Carlson, Bird (Correct)
Implementation Of A **Vibration**ally Linked Chemical Reaction Model For Dsmc Ann
collision theory. The values used in the current **simulations** are given in Tables II and III. Relaxation of in Chapter's 5,6 and 11 of Bird's text. The first **test** case uses the onedimensional DSMC program to
techreports.larc.nasa.gov/pub/techreports/larc/94/tm109109.ps.Z

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